

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application;

--1. - 9. (Cancelled)

--10. (Currently Amended) A recording apparatus for a disc-shaped optical recording medium, comprising:

a light source for outputting a recording laser beam;

a light modulator for modulating said recording laser beam outputted from said light source based on supplied first data;

a light deflector for deflecting based on supplied second data the modulated recording laser beam outputted from said light modulator and producing a variable offset from a track center in a radial direction of said disc-shaped optical recording medium; ~~and~~

an objective lens for converging said modulated recording laser beam that is outputted from said light deflector with said variable offset from said track center in said radial direction onto said disc-shaped optical recording medium; and

a controller for controlling said light deflector so that a plurality of pits are formed on said track center at a predetermined interval.

--11. (Previously Presented) The apparatus according to

claim 10, further comprising a signal processing unit for forming said first data and said second data based on supplied data.

--12. (Previously Presented) The apparatus according to claim 11, further comprising:

a first driving unit to which said first data is supplied from said signal processing unit and that drives said light modulator; and

a second driving unit to which said second data is supplied from said signal processing unit and that drives said light deflector.

--13. (Previously Presented) The apparatus according to claim 11, wherein said signal processing unit forms said first data based on main data that is recorded on said optical recording medium and forms said second data based on additional data of the main data that is recorded on said optical recording medium.

--14. (Previously Presented) The apparatus according to claim 11, wherein said signal processing unit forms said first data based on upper bits of main data that is recorded on said optical recording medium and forms said second data based on lower bits of said main data.

--15. - 43. (Cancelled)

--44. (Currently Amended) A recording method for a disc-shaped optical recording medium, comprising the steps of:

modulating a recording laser beam outputted from a light source based on supplied first data and producing a modulated recording laser beam;

deflecting based on supplied second data said modulated recording laser beam and producing a variable offset from a track center in a radial direction of said disc-shaped optical recording medium; and

converging said modulated and deflected recording laser beam with said variable offset from said track center in said radial direction onto said disc-shaped optical recording medium by an objective lens; and

controlling said step of deflecting so that a plurality of pits are formed on said track center at a predetermined interval.

--45. (Previously Presented) The method according to claim 44, wherein said first data is formed based on main data that is recorded onto said optical recording medium and said second data is formed based on additional data of the main data is recorded on said optical recording medium.

--46. (Previously Presented) The method according to claim 44, wherein said first data is formed based on upper

bits of said main data that is recorded on said optical recording medium and said second data is formed based on lower bits of the main data that is recorded on said optical recording medium.

--47. - 59. (Cancelled)

--60. (New) The apparatus according to claim 10, wherein said predetermined interval is a frame.

--61. (New) The apparatus according to claim 44, wherein said predetermined interval is a frame.